

ABSTRACT OF DISCLOSURE

A method of controlling a balance of a photodetector capable of increasing light reception efficiency thereof in a compatible optical pickup and an apparatus thereof. The method includes installing first and second light sources in a single module; directing light supplied from the first or second light source and transmitted through a holographic optical element, an optical path changing unit, and an objective lens onto a disk corresponding to each light source, transmitting the light reflected from the disk through the objective lens, and the optical path changing unit to a photodetector, moving the photodetector so that the center of a first one of first and second spots received by the photodetector is concentric with the center of the photodetector; and moving the holographic optical element so that the center of the second received spot from the second light source is concentric with the center of the photodetector. Accordingly, the method allows a photodetector balance to be controlled optimally for first and second light sources in an optical module having the first and second light sources in a single module.

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